



## Wireless E-911 Services Board

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## Phase II



- Longitude and latitude location of the caller.
- Margin of error for accuracy depends on technology solution.
- Implementation dates depends on technology solution.

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## Accuracy



- Handset Based Solution
  - 50 meters / 67% of the calls
  - 150 meters / 95% of the calls
- Network Based Solution
  - 100 meters / 67% of the calls
  - 300 meters / 95% of the calls

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Timeline



- Announce Technology by November 9
- Handset based
  - Begin selling by October 2001 (regardless of request).
  - 25% of new by December 31, 2001.
  - 50% by June 30, 2002.
  - 100% by December 31, 2002.
  - Full penetration (95%) by December 31, 2005.
- Network based
  - 50% of area in 6 months of request.
  - 100% within 18 months.

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Preparation



- Identified “new” requirements for PSAPs for Phase II.
  - Mapping Data
  - Display System
- Computerized mapping not necessarily required.
- Held two focus groups to solicit input from the user community.

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Mapping Data



- Aerial Photography
  - Digital orthographic
  - VGIN program
- Street centerline and addressing
  - Drawn on top of the photography
  - VDOT project



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## Display System

- CPE-based
- CAD-based
- Separate system
- Service provider (data and display)

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## PSAP Funding

Mapping	Prince William	Henrico	Staff
• Aerial Photography (Initial effort)	Wireless percentage of cost or higher amount for start up such as composite index or fixed amount.	100% of cost - Should be conducted in a statewide program.	Composite index or Statewide program (whichever is more economical).
• Aerial Photography (Repeated)	No funding.	Wireless percentage of cost.	No funding unless statewide program.
• Street Centerline (Initial effort)	Wireless percentage of cost or higher amount for start up such as composite index or fixed amount.	100% of cost - Should be conducted in a statewide program.	Composite index or Statewide program (whichever is more economical).
• Street Centerline (On going)	No funding.	Wireless percentage of cost.	No funding.
• Building and Parcels (Initial effort)	No funding.	100% - Should be conducted in a statewide program.	No funding.
• Building and Parcels (On going)	No funding.	Wireless percentage of cost.	No funding.
• P.E.P. Personnel for Maintenance	Wireless percentage of cost.	Wireless percentage of cost or 100% for first year of startup.	Wireless percentage of cost.
• Addressing Equipment	Not discussed.	Not discussed.	Wireless percentage of cost.

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## PSAP Funding

Display System	Prince William	Henrico	Staff
• CPE Asset (Initial purchase)	100% of total cost to implement (configuration, hardware, installation).	100% of total cost to implement (configuration, hardware, installation).	100% of total cost to implement (configuration, hardware, installation).
• CPE Asset (Replacement)	Wireless percentage of cost.	Wireless percentage of cost.	Wireless percentage of cost.
• CPE Asset (Maintenance)	Wireless percentage of cost.	Wireless percentage of cost.	Wireless percentage of cost.

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## PSAP Funding



### Display System (Continued)

• CAD-based (Interface)	100% of cost of interface.	100% of cost of interface.	100% of cost of interface.
• CAD-based (Addition of Mapping)	100% of total cost to implement (configuration, hardware, installation).	100% of total cost to implement (configuration, hardware, installation).	100% of total cost to implement (configuration, hardware, installation).
• CAD-based (Entirely new CAD system)	100% of total cost to implement (configuration, hardware, installation).	100% of the cost of the interface and mapping components only (if it cannot be split out of the cost of the system, then no funding available).	100% of the cost of the interface and mapping components plus the wireless percentage of the rest of the cost of the system.
• CAD-based (Replacement of entire CAD system)	Wireless percentage of total cost to implement (configuration, hardware, installation).	Wireless percentage of the cost of the interface and mapping components only.	Wireless percentage of the cost of the interface and mapping components only.
• CAD-based (Maintenance)	Wireless percentage of cost.	Wireless percentage of cost.	No funding.

## Phase II PSAP Funding



### Display System (Continued)

• Separate system (Initial purchase)	100% of total cost to implement (configuration, hardware, installation).	100% of total cost to implement (configuration, hardware, installation).	100% of total cost to implement (configuration, hardware, installation).
• Separate system (Replacement)	Wireless percentage of cost.	Wireless percentage of cost.	Wireless percentage of cost.
• Separate system (Maintenance)	Wireless percentage of cost.	Wireless percentage of cost.	Wireless percentage of cost.
• Service Provider based	100% of total cost.	100% of total cost.	100% of total cost if no other use than wireless E-911.

## PSAP Funding



### Other Comments

<b>Prince William</b> <ul style="list-style-type: none"> <li>Request statewide study of Phase II implementation options to include a rider for localities to acquire consulting services for Phase II project management. All costs for study and consulting service to be paid by the Wireless Fund.</li> </ul>	<b>Henrico</b> <ul style="list-style-type: none"> <li>Requested a statewide standard for small, medium and large PSAPs and fund different items at different levels for each type of agency and upgrade systems if a PSAP grows from one size to another.</li> <li>Requested consideration of needs based funding based on the needs of the PSAP and the locality's ability to fund (possible use of composite index).</li> </ul>	<b>Staff</b> <ul style="list-style-type: none"> <li>Recommend statewide study of Phase II implementation options to include a rider for localities to acquire consulting services for Phase II project management. All costs for study and consulting service to be paid by the Wireless Fund.</li> <li>Do NOT recommend a statewide standard for small, medium and large PSAPs, and fund different items at different levels for each type of agency.</li> <li>Do NOT recommend consideration of needs based funding based on the needs of the PSAP and the locality's ability to fund (possible use of composite index).</li> </ul>
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## Study



- Inventory and evaluate current equipment and data as it relates to wireless E-911.
- Prepare options for each localities to implement wireless E-911.
- Provide contract vehicle for localities to use consultant for project management.

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## Consulting Rider



- Many localities lack the time and expertise for dealing with wireless 9-1-1.
- Will likely speed implementation.
- Will lower cost (of study and service).
- Should not limit to Phase II.
- Should require localities to develop a detailed scope of work.

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